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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in this divisional application. Added text is indicated by <u>underlining</u>, and deleted text is indicated by <u>strikethrough</u>. Changes are identified by vertical change bars in the left margin.

LISTING OF CLAIMS:

Claims 1-27. (Canceled)

28. (Original) An apparatus for use in alignment of projection imaging tools, the apparatus comprising:

a substrate that has alignment attributes that occur in interlocking rows and columns across the substrate; and

a calibration file associated with the substrate that indicates the position of the alignment attributes on the substrate.

- 29. (Original) An apparatus as defined in claim 28, wherein the calibration file is recorded onto a computer readable medium.
- 30. (Original) A method of using a reference wafer comprising: loading the reference wafer, that includes overlay targets, onto an imaging machine:

loading and aligning an overlay reticle onto the imaging machine:

exposing the reference wafer with the overlay reticle;

developing the reference wafer;

measuring the overlay targets;

subtracting offset values, associated with the wafer, from the measurements; and calculating errors of the machine.

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- 31. (Original) A method as defined in claim 30, wherein the machine is a stepper projection imaging system.
- 32. (Original) A method as defined in claim 30, wherein the machine is a scanning projection imaging system.
- 33. (Original) A method as defined in claim 30, wherein the machine is an electron beam imaging system.
- 34. (Original) A method as defined in claim 30, wherein the machine is an electron beam direct write system.
- . 35. (Original) A method as defined in claim 30, wherein the machine is a SCAPEL tool.
- 36. (Original) A method as defined in claim 30, wherein the machine is an extreme ultra-violet imaging tool.
- 37. (Original) A method as defined in claim 30, wherein the machine is an ion projection imaging tool.
- 38. (Original) A method as defined in claim 30, wherein the machine is an x-ray imaging system.
- 49 39. (Currently Amended) A method as defined in claim 30, wherein the subtracting and calculating after performed on a computer.
- 50 40. (Currently Amended) A method as defined in claim 30, wherein the offset values associated with the reference wafer are stored in a calibration file.

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 51 ± 41 . (Currently Amended) A method as defined in claim 50 ± 0 , wherein the calibration file is stored on a computer readable medium.

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